

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.

GIDU/ ★ Q56

F1211C/23 ★ SU -693-047

Spherical pump with piston disc and two half-discs on shafts - has drive to move driven shaft in form of half-ring coaxial with body

GIDULYAN V I 30.05.78-SU-622131

(27.10.79) F04c-01

The pump comprises a body and a piston disc between two half-discs perpendicular to each other, connected to shafts.

The driven shaft can move in a slot in the body.

To enable the angle between the shafts to be altered to control the flow rate, the pump has a drive to move the driven shaft, in the form of a half-ring co-axial with the body, connected to a motor by a gear train.

When the "dead" space between half-discs (3, 4) and disc

(2) is altered, this alters the working volume of the pump, and thus its output. An increase in the angle between shafts (5, 6) decreases the output, which is reduced to zero at  $180^\circ$ . Further increase enables the pump to operate in reverse. Gidulyan V.I., Kolomiets Yu. K. Bul. 39/25. 10. 79. 30. 5. 78 as 622131 (2pp18)

